AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended)A communications interface system for communicating information in a plasma processing system, comprising:

a power delivery system component including a POD interface for communicating information that complies with a first protocol;

a portable device including a coprocessor and a ~~removable~~ mass storage device selected from the group of CD-ROMs, FlashCards, Optical Disks, and magnetic media, coupled between the POD interface and a second communication interface for communicating ~~information~~ sensor information there between, the second communication interface communicating sensor information~~information~~ that complies with a second protocol, the portable device translating the ~~information~~ sensor information between the first protocol and the second protocol and being detachable from the POD interface and the second communication interface;

a first communication link for coupling the POD interface to the portable device; and

a second communication link for coupling the portable device to the second communication interface.

2-3 (cancelled).

4. (previously presented) The communications interface system of Claim 1 wherein the second protocol is selected from the group of analog interface, USB, Ethernet, Devicenet, Profibus, Modbus, and Infrared Transceiver.

5-6 (cancelled).

7. (original) The communications interface system of Claim 1 wherein the portable device includes a plurality of interface ports for interfacing with more than one communication interface.

8. (original) The communications interface system of Claim 1 wherein the portable device further includes a coprocessor.

9. (original) The communications interface system of Claim I wherein the second communication interface is a customer interface.

10. (original) The communications interface system of Claim 1 wherein the power delivery system component is selected from the group of V/I probes, generators, matching networks, and power amplifiers.

11. (currently amended) A communications interface system for a plasma generator system, comprising:

a power delivery system component including a POD interface for communicating sensor information~~information~~ that complies with a first protocol;

a portable device including a coprocessor and a ~~removable~~ mass storage device selected from the group of CD-ROMs, FlashCards, Optical Disks, and magnetic media, coupled between the POD interface and a customer communication interface for communicating sensor information~~information~~ there between, the customer communication interface communicating sensor information~~information~~ that complies with a second protocol, the portable device translating the ~~information~~ sensor information between the first protocol and the second protocol and being detachable from the POD interface and the customer communication interface;

a first communication link for coupling the POD interface to the portable device; and

a second communication link for coupling the portable device to the customer communication interface.

12-13 (cancelled).

14. (previously presented) The communications interface system of Claim 13 wherein the portable device further includes a coprocessor

15. (cancelled).

16. (previously presented) The communications interface system of Claim 14 wherein the portable device includes a plurality of interface ports for interfacing with more than one communication interface.

17. (previously presented) The communications interface system of Claim 16 wherein the power delivery system component is selected from the group of V/I probes, generators, matching networks, and power amplifiers.

18. (currently amended)A communications interface system for communicating information in a plasma processing system, comprising:

a generator assembly including a POD interface conforming to a first protocol for communicating information, the POD interface including a communication port for receiving communication signals;

a first communication link having a first end detachably coupled to the POD interface communication port;

an interface portable device including a coprocessor and a ~~removable~~ mass storage device selected from the group of CD-ROMs, FlashCards, Optical Disks, and magnetic media, detachably coupled between the POD interface and a second communication interface for communicating information there between, the second communication interface conforming to a second protocol, the interface portable device converting information flowing between the POD interface and the second communication interface such that information flowing to the second communication interface conforms to the second protocol and sensor information~~information~~ flowing to the POD interface conforms to the first protocol; and

a second communication link for detachably coupling the portable device to the second communication interface.

19. (cancelled).

20. (previously presented) The communications interface system of Claim 18 wherein the portable device includes a plurality of interface ports for interfacing with more than one communication interface.

21. (currently amended)A plasma processing system that connects to a selected one of a plurality of types of interfaces and that communicates using a selected one of a plurality of protocols, comprising:

a power delivery system component further comprising:

a sensor that provides sensor data;

a control system; and

a POD interface that communicates the sensor data using a first protocol and that is in communication with ~~the sensor data and~~ the control system; and

a plurality of portable devices, wherein each one of the portable devices can connect between the POD interface and only one of the plurality of types of interfaces and is adapted to translate the sensor data between the first protocol and only one of the plurality of protocols,

wherein a selected one of the portable devices connects between the POD interface and the selected one of the plurality of types of interfaces to ~~establish communication~~communicate the sensor data between the first protocol of the power delivery system and the selected one of the plurality of protocols.

22. (previously presented) The plasma processing system of Claim 21 wherein each of the plurality of portable devices further includes a mass storage device selected from a group consisting of CD-ROMs, FlashCards, Optical Disks, and magnetic media.

23. (previously presented) The plasma processing system of Claim 21 wherein each of the plurality of portable devices further includes a coprocessor.

24. (previously presented) The plasma processing system of Claim 21 wherein each of the plurality of portable devices includes a plurality of interface ports that communicate using the first protocol.

25. (previously presented) The plasma processing system of Claim 21 wherein the power delivery system component is selected from a group consisting of V/I probes, generators, matching networks, and power amplifiers.